

WE CLAIM:

1. A composition comprising a spermicidal effective amount of an organometallic cyclopentadienyl vanadium IV complex and a pharmaceutically acceptable carrier, diluent or vehicle.
2. The composition of claim 1, wherein the complex is selected from the group consisting of vanadocene dichloride, bis (methylcyclopentadienyl) vanadium dichloride, vanadocene dibromide, vanadocene diiodide, vanadocene diazide, vanadocene dicyanide, vanadocene dioxycyanate, vanadocene dithiocyanate, vanadocene diselenocyanate, vanadocene ditriflate, vanadocene monochloro oxycyanate, vanadocene monochloroacetonitrilo tetrachloro ferrate, vanadocene acetylacetonato monotriflate, vanadocene bipyridino ditriflate, vanadocene hexafluoro acetylacetonato monotriflate, vanadocene acethydroxamato monotriflate, and vanadocene N-phenyl benzohydroxamato monotriflate.
3. The composition of claim 1, wherein the complex is vanadocene diselenocyanate.
4. The composition of claim 1, wherein the complex is vanadocene dichloride.
5. The composition of claim 1, wherein the pharmaceutical carrier provides both rapid and prolonged release of the organometallic cyclopentadienyl vanadium complex.
6. The composition of claim 1, wherein the pharmaceutical vehicle is an intravaginal insert.

7. The composition of claim 1, where the pharmaceutical vehicle is a condom.
8. A method of inhibiting motility of sperm comprising contacting sperm with an organometallic cyclopentadienyl vanadium IV complex.
9. A spermicidal article comprising an organometallic cyclopentadienyl vanadium IV complex.
10. The article of claim 9, being a vaginal insert.
11. The article of claim 9, being a condom.
12. A method for inducing destruction of testicular germ cells, the method comprising administering to the testis an organometallic cyclopentadienyl vanadium IV complex.
13. A method for inducing selective killing of testicular germ cells, the method comprising contacting the testicular germ cells with a composition comprising an organometallic cyclopentadienyl vanadium IV complex.
14. The method of claim 13, wherein the testicular germ cells are tumor cells.
15. The method of claim 13, wherein the testicular germ cells are normal cells.
16. The method of claim 13, wherein said administration is by intratesticular

injection.